(19) World Intellectual Property Organization International Bureau



. I MARIA CONTRAR IN CORNO NON REUN BODIN BODIN DIN NI HI BODINE NIND CORN CORNO CON CONTRAR CORNO CONTRAR COR

(43) International Publication Date 28 April 2005 (28.04.2005)

PCT

(10) International Publication Number WO 2005/037229 A2

(51) International Patent Classification7:

A61K

(21) International Application Number:

PCT/US2004/034391

- (22) International Filing Date: 18 October 2004 (18.10.2004)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/512,174

17.0

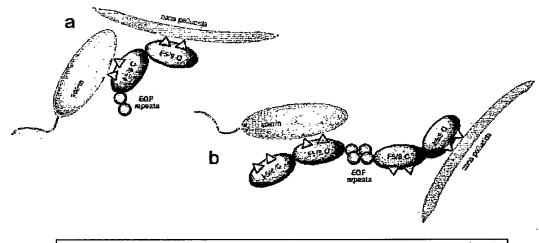
17 October 2003 (17.10.2003) US

- (71) Applicant (for all designated States except US): EMORY UNIVERSITY [US/US]; Office of Technology Transfer, 1784 North Decatur Road, Suite 130, First Floor, North Decatur Building, Atlanta, GA 30322 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): SHUR, Barry, D. [US/US]; 2014 N. Ponce de Leon Ave., Atlanta, GA 30307 (US). ENSSLIN, Michael [DE/US]; 1652 N. Gatewood Rd., Apt.10, Atlanta, GA 30329 (US).

- (74) Agent: VORNDRAN, Charles; Thomas, Kayden, Horstemeyer & Risley, LLP, 100 Galleria Parkway, N.W., Suite 1750, Atlanta, GA 30339-5948 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: METHODS AND COMPOSITIONS FOR MODULATING GAMETE ADHESION



(57) Abstract: Methods and compositions for modulating mammalian gamete adhesion are provided. Representative modulators of gamete adhesion include, but are not limited to polypeptides comprising at least one discoidin/C domain, and optionally at least one EGF domain. A representative polypeptide includes, but is not limited to SED1 polypeptides (SEQ ID NO. 2-7), prodrugs, fragments, or derivatives thereof. Methods for identifying modulators of SED1-mediated gamete adhesion are also provided.



WO 2005/037229 A2



Published:

 without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.